

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office JAN 31 2005 OFFICE	<b>Docket No.</b> JHU1900-1	<b>Serial No.:</b> 10/629,318
	<b>Applicant:</b> Andrew P. Feinberg	
<b>INFORMATION DISCLOSURE STATEMENT</b> BY APPLICANT	<b>Filing Date:</b> July 28, 2003	<b>Group Art Unit:</b> 1645

### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

DBJ	A	Cui, et al., "Loss of Imprinting in Normal Tissue of Colorectal Cancer Patients with Microsatellite Instability", <i>Nature Medicine</i> , 4(11):1276-1280 (November 1998)
DBJ	B	Cui, et al., "Loss of Imprinting in Colorectal Cancer Linked to Hypomethylation of H19 and IGF2," <i>Cancer Research</i> , 62(22):6442-6446 (November 2002)
DBJ	C	Nakagawa, et al., "Loss of Imprinting of the Insulin-Like Growth Factor II Gene Occurs by Biallelic Methylation in a Core Region of H19 Associated CTCF-Binding Sites in Colorectal Cancer", <i>Proceedings of the National Academy Sciences USA</i> , 98(2):591-596 (January 2001).

<b>EXAMINER</b> GT6432468.1 104659-258	/Diana B. Johannsen/  <b>DATE CONSIDERED</b> 10/23/2006
--	--

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	Docket No. <b>JHU1900-1</b>	Serial No.: <b>10/629,318</b>
	Applicant: <b>Andrew P. Feinberg</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Filing Date: <b>July 28, 2003</b>	Group Art Unit: <b>1634</b>

### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

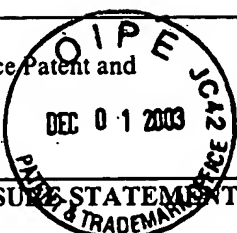
### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

DBJ	AA	Bell, A. C. and Felsenfeld, G., "Methylation of a CTCF-dependent Boundary Controls Imprinted Expression of the Igf2 Gene," <i>Nature</i> , Vol. 405, pp. 482-485, 2000.
DBJ	AB	Douc-Rasy, S. et al., "High Incidence of Loss of Heterozygosity and Abnormal Imprinting of H19 and IGF2 Genes in Invasive Cervical Carcinomas. Uncoupling of H19 and IGF2 Expression and Biallelic Hypomethylation of H19," <i>Oncogene</i> , Vol. 12, pp. 423-430, 1996.
DBJ	AC	Kaffer, C. R. et al., "A Transcriptional Insulator at the Imprinted H19/Igf2 Locus," <i>Genes and Development</i> , Vol. 14, pp. 1908-1919, 2000.
DBJ	AD	Reinhart, B. et al., "Shared Role for Differentially Methylated Domains of Imprinted Genes," <i>Molecular and Cellular Biol.</i> , Vol. 22, No. 7, pp. 2089-2098, 2002.

EXAMINER GT16493789.1 331323-258	/Diana B. Johannsen/  DATE CONSIDERED 10/23/2006
--	---

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	Docket No. JHU1900-1 (104659-258)	Serial No.: 10/629,318
	Applicant(s): Andrew P. Feinberg	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Filing Date: July 28, 2003	Group Art Unit: Not Yet Assigned



### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
DBJ	AA	5,552,277	09/03/1996	Nelson et al.			
DBJ	AB	5,786,146	07/28/1998	Herman et al.			
DBJ	AC	6,235,474B1	05/22/2001	Feinberg			

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

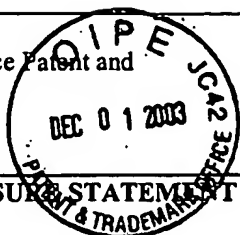
### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

DBJ	AD	Ravenel, J.D., et al., <i>J. Natl. Cancer Inst.</i> Vol. 93, 2001, Pgs. 1698-1703
	AE	Rainer et al., <i>Nature</i> , Vol. 362, 1993, Pgs. 747-749
	AF	Feinberg, A.P. and Vogelstein, B., "Hypomethylation Distinguishes Genes of Some Human Cancers From Their Normal Counterparts," <i>Nature</i> (Lond.), Vol. 301, 1983, Pgs. 89-92
	AG	Feinberg, A.P., et al. "Reduced Genomic 5-Methylcytosine Content in Human Colonic Neoplasia," <i>Cancer Res.</i> , Vol. 48, 1988, Pgs. 1159-1161
	AH	Ogawa, O., et al., "Relaxation of Insulin-Like Growth Factor II Gene Imprinting Implicated in Wilm's Tumour," <i>Nature</i> (Lond.), Vol. 362, 1993, Pgs. 749-751
DBJ	AI	Steenman, M. J., et al., "Loss of Imprinting of IGF2 is Linked to Reduced Expression and Abnormal Methylation of H19 in Wilms' Tumour, <i>Nat. Genet.</i> , Vol. 7, 1994, Pgs. 433-439

EXAMINER /Diana B. Johannsen/	DATE CONSIDERED 10/23/2006
----------------------------------	-------------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	<b>Docket No.</b> JHU1900-1 (104659-258)	<b>Serial No.:</b> 10/629,318
	<b>Applicant(s):</b> Andrew P. Feinberg	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	<b>Filing Date:</b> July 28, 2003	<b>Group Art Unit:</b> Not Yet Assigned

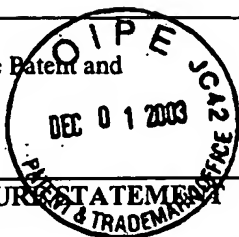


DBJ	AJ	Uegima, H., et al., "Hot-Stop PCR: a Simple and General Assay for Linear Quantitation of Allele Ratios," <i>Nat. Genet.</i> , Vol. 25, 2000, Pgs. 375-376
	AK	Sullivan, M.J., et al., "Relaxation of IGF2 Imprinting in Wilms Tumours Associated with Specific Changes in IGF2 Methylation," <i>Oncogene</i> , Vol. 18, 1999, Pgs. 7527-7534
	AL	Moore, T, et al., "Multiple Imprinted Sense and Antisense Transcripts, Differential Methylation and Tandem Repeats in a Putative Imprinting Control Region Upstream of Mouse <i>IGF<sup>2</sup></i> ," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94, November, 1997, Pgs. 12509-12514
	AM	Issa, Jean-Pierre J., et al., "Switch from Monoallelic to Biallelic Human <i>IGF<sup>2</sup></i> Promoter Methylation During Aging and Carcinogenesis." <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 93, October 1996, Pgs. 11757-11762
	AN	Nakagawa, H., et al., "Loss of Imprinting of the Insulin-Like Growth Factor II Gene Occurs by Biallelic Methylation in a Core Region of <i>H19</i> -Associated CTCF-binding Sites in Colorectal Cancer," <i>Proc. Natl. Acad. Sci. USA</i> , January 16, 2001, Vol. 98, No. 2, Pgs. 591-596
	AO	Lee, M.P., et al., "Loss of Imprinting of a Paternally Expressed Transcript, with Antisense Orientation to <i>KvLQT1</i> , Occurs Frequently in Beckwith-Wiedemann Syndrome and is Independent of Insulin-Like Growth Factor II Imprinting," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, April 1999, Pgs. 5203-5208
	AP	Cui, Hengmi, et al., "Loss of Imprinting of <i>Insulin-like Growth Factor-II</i> in Wilms' Tumor Commonly Involves Altered Methylation but not Mutations of <i>CTCF</i> or Its Binding Site <sup>1</sup> ," <i>Cancer Research</i> , Vol. 61, July 1, 2001, Pgs. 4947-4950
	AQ	Takai, Daiya, et al., "Large Scale Mapping of Methylcytosines in CTCF-binding Sites in the Human <i>H19</i> Promoter and Aberrant Hypomethylation in Human Bladder Cancer," <i>Human Molecular Genetics</i> , Vol. 10, No. 23, 2001, Pgs. 2619-2626
	AR	Bartolomei, M.S., et al., "Epigenetic Mechanisms Underlying the Imprinting of the Mouse <i>H19</i> Gene," <i>Genes &amp; Dev.</i> 7(9), September 1993, Pgs. 1663-1673
DBJ	AS	Taniguchi, T., et al., "Epigenetic Changes Encompassing the <i>IGF2/H19</i> Locus Associated with Relaxation of <i>IGF2</i> Imprinting and Silencing of <i>H19</i> in Wilms Tumor," <i>Proc. Natl. Acad. Sci.</i> , Vol. 92, March 1995, Pgs. 2159-2163

<b>EXAMINER</b> /Diana B. Johannsen/	<b>DATE CONSIDERED</b> 10/23/2006
---	--------------------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	Docket No. JHU1900-1 (104659-258)	Serial No.: 10/629,318
	Applicant(s): Andrew P. Feinberg	
<b>INFORMATION DISCLOSURE STATEMENT          BY APPLICANT</b>	Filing Date: July 28, 2003	Group Art Unit: Not Yet Assigned



DBJ	AT	Catchpoole, D., et al., "Mutation Analysis of <i>H19</i> and <i>NAP1L4</i> ( <i>hNAP2</i> ) Candidate Gene and <i>IGF2</i> DMR2 in Beckwith-Wiedemann Syndrome," <i>J. Med Genet</i> , 37(3) March 2000, Pgs. 212-215
	AU	Nishihara, S., et al., "Multipoint Imprinting Analysis in Sporadic Colorectal Cancers With and Without Microsatellite Instability," <i>Int. J. Oncol.</i> , 17(2), August 2000, Pgs. 317-322
	AV	Hofmann, W.K., et al., "Loss of Genomic Imprinting of Insulin-Like Growth Factor 2 is Strongly Associated with Cellular Proliferation in Normal Hematopoietic Cells," <i>Exp. Hematol</i> , 30(4), April 2002, Pgs. 318-323
	AW	Cui, H., et al., "Loss of Imprinting in Colorectal Cancer Linked to Hypomethylation of <i>H19</i> and <i>IGF2</i> <sup>1</sup> ," <i>Cancer Research</i> , 62, November 15, 2002, Pgs. 6442-6446
	AX	Vu, T.H., et al., "Symmetric and Asymmetric DNA Methylation in the Human <i>IGF2</i> - <i>H19</i> Imprinted Region, <i>Genomics</i> , 64(2) March 1, 2000, Pgs. 132-143
	AY	Schoenherr, C.J., et al., "CTCF Maintains Differential Methylation at the <i>Igf2/H19</i> Locus," <i>Nat. Genet</i> , 33(1), January 2003, Pgs. 66-69.
	AZ	Bell, A.C., et al., "The Protein CTCF is Required for the Enhancer Blocking Activity of Vertebrate Insulators," <i>Cell</i> , Vol. 98, August 6, 1999, Pgs. 387-396
	BA	Schneider, D. T., et al., "Multipoint Imprinting Analysis Indicates a Common Precursor Cell for Gonadal and Nongonadal Pediatric Germ Cell Tumors <sup>1</sup> ," <i>Cancer Research</i> , Vol. 61, October 1, 2001, Pgs. 7268-7276
	BB	Uyeno, S., et al., " <i>IGF2</i> But not <i>H19</i> Shows Loss of Imprinting in Human Glioma <sup>1</sup> ," <i>Cancer Research</i> , Vol. 56, December 1, 1996, Pgs. 5356-5359
DBJ	BC	Yun, K., et al., "Analysis of <i>IGF2</i> Gene Imprinting in Breast and Colorectal Cancer by Allele Specific-PCR," <i>Journal of Pathology</i> , Vol. 187, 1999, Pgs. 518-522

EXAMINER /Diana B. Johannsen/	DATE CONSIDERED 10/23/2006
-------------------------------	----------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.